—Standard Valves—

4019-A AND 4019-B VALVES

TRIODES.

SPECIFICATION.

Cathode.

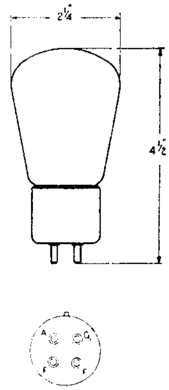
Oxide coated filament.
Constant current type.

Base.

4019-A Medium 4-pin bayonet thrust.
4019-B Standard British 4-pin.

Dimensions.

		4019-A	4019-B
Max. overall length	ins.	$4\frac{1}{2}$	$4\frac{9}{16}$
	cms.	11·4	11·6
Bulb diameter—			
	ins.	$2\frac{1}{4}$	$2\frac{1}{4}$
	cms.	5·7	5·7
Net weight	lbs.	0·14	0·14
	gms.	65	65

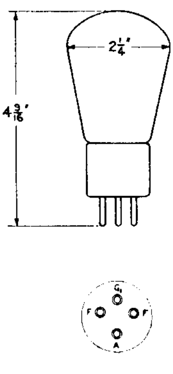


4019-A

Constants.

Filament current	0·25 amps.
Nominal filament voltage	4 volts
*Impedance	5,500 ohms
*Amplification factor	7
*Mutual conductance	1·27 mA per volt
Maximum direct anode voltage	190 volts
Grid–anode capacity	5·4 $\mu\mu$F.
Anode–filament capacity	4·8 $\mu\mu$F.
Grid–filament capacity	7·3 $\mu\mu$F.

* *at* Vp = 130 *volts*, Vg_1 = —8 *volts*.



4019-B

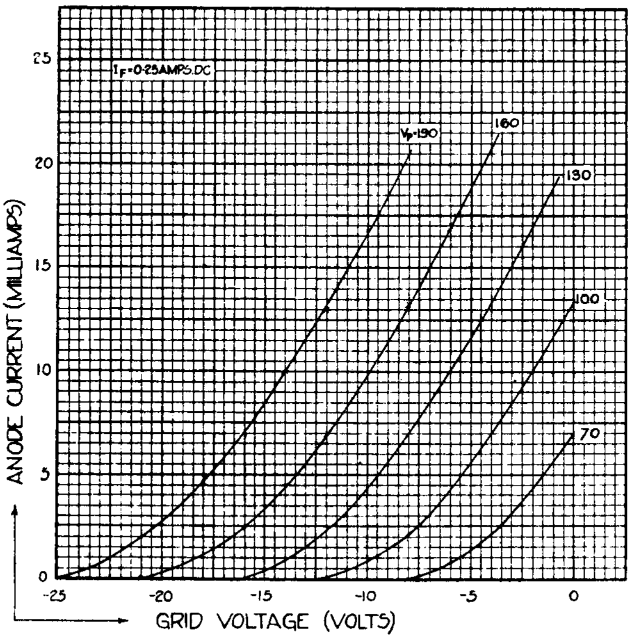
—Standard Valves—

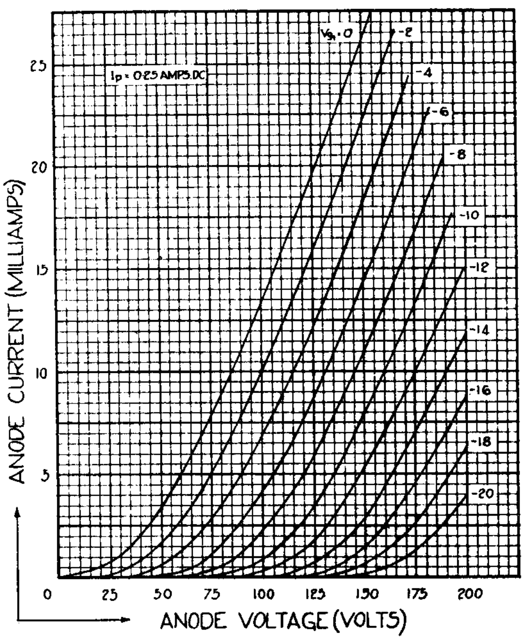
TYPICAL OPERATING CONDITIONS.

Anode voltage volts	Grid bias volts	Anode current mA	Anode Resistance ohms	Resistance Load ohms	Output Power mW.	Total Harmonics db below fundamental
130	—6	9·7	4,800	4,600	54	30
				9,200	49	34
				13,800	36	37
130	—8	6·8	5,500	5,500	83	24
				11,000	74	30
				16,500	61	32
130	—10	4·3	6,500	5,500	100	16
				11,000	85	23
				16,500	80	27
160	—10	9·8	4,700	4,600	150	24
				9,200	132	30
				13,800	112	37
160	—12	7·1	5,300	5,500	180	19
				11,000	156	23
				16,500	130	31
190	—14	9·7	4,900	5,500	290	23
				11,000	240	30
				16,500	180	33

Note :—Decreasing the output by N db below the value given in the table improves the harmonic level by N db.

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I_F = 0·25 AMPS. DC
V_P = 190
160
130
100
70
ANODE CURRENT (MILLIAMPS)
GRID VOLTAGE (VOLTS)
25
20
15
10
5
0
-25
-20
-15
-10
-5
0


I_F = 0·25 AMPS. DC
V_{g_1} = 0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
ANODE CURRENT (MILLIAMPS)
ANODE VOLTAGE (VOLTS)
25
20
15
10
5
0
25
50
75
100
125
150
175
200

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